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(71) Applicant: **LION CORP**

(72) Inventor: **UJIIE TAKASHI**

OZAWA TOSHIYUKI

TAMURA KAZUTOSHI

(54) PREPARATION OF SPHERICAL CALCIUM CARBONATE

(57) Abstract:

PURPOSE: To prepare calcium carbonate having spherical vaterite structure stable even in the presence of water, and suitable as an abrasive for toothpaste, by reacting a water-soluble calcium salt with a carbonate in an aqueous solution in the presence of a bivalent cation other than Ca.

CONSTITUTION: Spherical vaterite-type calcium carbonate stable even in the presence of water can be prepared by mixing and reacting (A) an aqueous solu-

tion of a water-soluble calcium salt such as calcium chloride, calcium acetate, etc. with (B) equimolar amount of an aqueous solution of a carbonate such as sodium carbonate, ammonium carbonate, etc. and (C) a bivalent cation other than Ca (e.g. Sr ion, Mg ion, etc.). The amount of the cation is 0.005W0.5wt% of the water-soluble calcium salt. When the calcium carbonate prepared above is used e.g. as an abrasive for toothpaste, it keeps the spherical shape stably for a long period even in the presence of water, and since it is spherical, it exhibits mild abrasive action and gives excellent feeling to the mouth.

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